

[0396] The software component that is responsible for changes to TSAF data is tracked. The Components table 1910 contains the list of software components that can be associated with a session, as described below:

[0397] Component ID ([Component_ID]). Each component is identified by a
5 unique, numeric identifier, the Component ID.

[0398] Name ([Descr]). Each component is identified by a name.

[0399] Description. This column contains a description of a component.

[0400] Each session tracks the Entities whose data were altered by that session. This information is recorded in the Session Entities table 1920, as described below:

10 **[0401] Session ID ([Session_ID]).** Each row in the Session Entities table identifies an Entity whose data was altered by activities related to that session. The Session ID identifies the session.

[0402] Entity Class ID ([Entity_Class_ID]). Each row in the Session Entities table identifies an Entity whose data was altered by activities related to that
15 session. Each Entity is identified by a global Entity identifier, which consists of the Entity Class ID and the Entity ID.

[0403] Entity ID ([Entity_ID]). Each row in the Session Entities table identifies an Entity whose data was altered by activities related to that session. Each Entity is identified by a global Entity identifier, which consists of the Entity Class ID
20 and the Entity ID.

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The Lock Data

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[0410] Locks lock Lock Attributes. Each lock only applies to a specific set of Attributes, as specified in the Lock Attributes table 2020. This relationship identifies the Attributes associated with a lock.

- 5 **[0411]** The data is locked by creating a lock and associating this lock with a set of Entities and Attributes. The locks table 2000 defines the currently active locks. Locks that are no longer active are deleted from this table.

[0412] Lock ID. Each lock is identified by a unique, numeric identifier, the Lock ID.

- 10 **[0413] User ID.** Each lock is created by the data maintenance activities of a specific user. The User ID identifies the user responsible for a lock. Only the user responsible for a lock or a system administrator can remove a lock.

[0414] Start Time. Each lock begins at a fixed time. The Start Time identifies when a lock began.

- 15 **[0415] End Time.** Each lock is scheduled to expire at a fixed time. The End Time identifies when a lock is scheduled to expire. Note that a lock is not automatically retired when the End Time passes; instead, this field is used to identify unintended locks so that a system administrator can manually remove these locks.

- 20 **[0416]** Each lock affects a specified collection of Entities and a specified selection of Attributes of those Entities. The Lock Entities table 2010 records the Entities that are affected by a lock.